

ACCESSION NR: AP4037607

and N. S. Wall for natural tin at 13.5 MeV (Phys. Rev. v. 119, 1340, 1960). On all the tin isotopes one observes a clear out diffraction structure, with no noticeable difference in the cross sections for the different isotopes. From the comparison of the elastic scattering of deuterons by tin at 15, 13.6 and 11.8 MeV it is concluded that the diffraction structure becomes more clearly pronounced with increasing energy and shifts towards the smaller angles.

ASSOCIATION: None

SUBMITTED: 28Jun63

DATE ACQ: 09Jun64

ENCL: 01

SUB CODE: NP

NR REF SOV: 002

OTHER: 001

Card: 2/3

ACCESSION NR: AP4040930

S/0185/64/009/006/0610/0616

AUTHOR: Tokarevskiy, V. V. (Tokarevs'ky*y, V. V.); Yao, Liang

TITLE: Inelastic deuteron scattering by zinc and zirconium

SOURCE: Ukrayins'ky*y fizy*chny*y zhurnal, v. 9, no. 6, 1964,
610-616

TOPIC TAGS: inelastic deuteron scattering, inelastically scattered deuteron distribution, angular deuteron distribution, single phonon quadrupole state, two phonon quadrupole state, single phonon octupole state

ABSTRACT: The angular distribution of deuterons with an energy of 13.6 Mev inelastically scattered by zinc and zirconium nuclei has been measured with a selective scintillation spectrometer and particles selected by the method of

$$\frac{dE}{dx} \cdot E.$$

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In the deuteron spectrum of inelastic scattering by zinc, intensive peaks corresponding to excitation energies of 1.0 ± 0.2 Mev, 1.7 ± 0.2 Mev, 2.7 ± 0.3 Mev, and 3.6 ± 0.3 Mev are visible. The position of the first peak lies on the Wenaser-Goldhaber curve for single-phonon quadrupole states 2^+ ($T = 0$), the position of the second peak coincides with the position of two-phonon quadrupole triplets, and the position of the third peak lies on the Lanet-Pandelbury curve for single-phonon octupole states 3^- ($T = 0$). The angular distribution for the first peak is characterized by $L = 2$, showing that the value of the spin is 2^+ for this level. The angular distribution for the third peak oscillates in antiphase with the angular distribution of the first peak, which shows that a negative parity of states, producing a peak, and a value $L = 3$ are possible for cross sections near one another. Consequently, the most probable value for spin, in this case, is 3. The two-phonon nature of the second peak is confirmed by 1) the intensity of the peak, which is smaller by one order than the intensities of the first and the third peaks, and 2) the angular distribution of the peak, which oscillates in antiphase with the angular distribution for the first peak, regardless of the similar parity state.

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generating the first and the second peaks. In the spectra of deuterons inelastically scattered on zirconium, two clear peaks at $Q = -0.9 \pm 0.2$ Mev and $Q = -2.2 \pm 0.4$ Mev are seen. The first peak corresponds to the single-phonon quadrupole level 2^+ ($T = 0$) of zirconium isotopes (excluding Zr^{90}) and second is generated mainly by single-phonon octupole levels 3^- ($T = 0$). The probability of excitation of one-particle levels 0^+ and 2^+ lying in the excitation energy region of 2 Mev (for the main isotope Zr^{90}) is small; this is in agreement with the assumption that excitation of collective states in inelastic scattering is more likely. Orig. art. has: 4 figures.

ASSOCIATION: Insty*tut fizy*ky* AN URSR, Kiev (Institute of Physics, AN URSR)

SUBMITTED: 04Ju163

ATD PRESS: 3044

ENCL: 00

SUB CODE: NP

NO REF SOV: 007

OTHER: 012

Card 3/3

ACCESSION NR: AP4037606

S/0056/64/046/005/1898/1900

AUTHORS: Nemets, O. F.; Pikar, F.; Tokarevskiy, V. V.

TITLE: Inelastic scattering of deuterons by some even tin isotopes

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 5, 1964, 1898-1900

TOPIC TAGS: tin, level energy, deuteron reaction, angular distribution, nuclear spectroscopy, inelastic scattering, quadrupole moment

ABSTRACT: Measurements were made, at a deuteron energy 13.6 MeV, of the differential cross sections of the inelastic scattering from the isotopes Sn¹¹⁶, 118, 120, 122, 124 with excitation of the first 2⁺ levels and of the states which form a gross-structure peak at Q ≈ -2.5 MeV. The deuterons were recorded by a selective scintillation spectrometer described by the author previously (PTE, No. 2, 34, 1962). The absolute cross sections were determined by a method

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similar to that described by the authors previously (Izv. AN SSSR, ser. fiz. v. 27, 927, 1963). A comparison of the inelastic scattering spectra of deuterons with the spectra of protons from the (d, p) stripping reaction on the isotopes of Sn^{118, 120} shows that the excitation probability of single-particle states is very low in the inelastic scattering, whereas the quadrupole 2⁺ levels are excited one order of magnitude more intensely than in (d, p) stripping. Orig. art. has: 2 figures.

ASSOCIATION: Institut fiziki Akademii nauk Ukrainskoy SSR (Institut of Physics, Academy of Sciences UkrSSR); Joliot-Curie Laboratory, Orsay, France

SUBMITTED: 28Jun63

DATE ACQ: 09Jun64

ENCL: 02

SUB CODE: NP

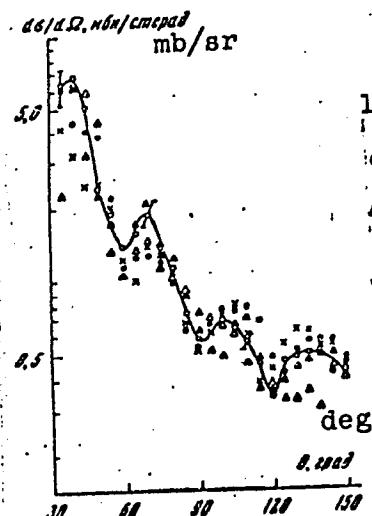
NR REF Sov: 004

OTHER: 001

Card 2/4

ACCESSION NR: AP4037606

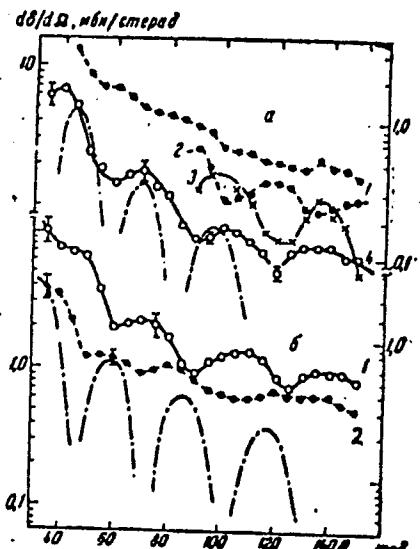
ENCLOSURE: 01



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ACCESSION NR: AP4037606

ENCLOSURE: 02



Angular distributions of 13.6-MeV deuterons inelastically scattered by tin isotopes: a - scattering by Sn^{120} , b - scattering by Sn^{116} . Dash-dot curves - Huby-Newns theory. Other curves pertain to various levels and peaks. Ordinates - differential cross section in mb/sr (left - curves a4 and b2, right - other curves). Abscissas - scattering angles of deuterons in the laboratory system.

Card 4/4

TOKARSKIY, Z. (Pol'skaya Narodnaya Respublika).; El'sner, K. (Pol'skaya
Narodnaya Respublika).

Manufacture of stabilized dolomite clinker bricks in the Polish
People's Republic, and its industrial use. Ogneupory 22 no.2:79-
90 '57. (MIRA 10:4)
(Poland--Clinker Bricks) (Dolomite)

EXCERPTA MEDICA Sec 8 Vol 12/1 Neurology Jan 59

Seattle, Wash. (VIII, 5)

59. DISTURBANCES OF THE LEVEL OF BASIC ELECTROLYTES IN THE BLOOD AND URINE OF PATIENTS WITH FOCAL BRAIN LESIONS -
Spostrzeżenia nad zaburzeniami poziomu podstawowych elektrolitów we krwi
i moczu u chorych z ogniskowymi uszkodzeniami mózgowia - Tokarz F.
Klin. Neurochir. A.M., Poznań - NEUROL. NEUROCHIR. PSYCHIAT. 1956,
7/suppl. 4 (630-636) Graphs 1 Tables 1
- Report on preoperative and postoperative investigations of Na, K and Cl in the blood and urine of patients with intracranial new growths and with recent and old brain lesions. Simultaneous investigations of the electrolyte levels in the blood and urine yield a better insight into the biochemical regulation of the system than analysis of the blood only.
- Tyndel - Toronto

TOKARZ, Feliks; HOLYST, Jerzy

Surgical therapy of aneurysms of communicating arteries. Neurol.,
neurochir., psychiat. Pol. 15 no.1:135-143 Ja-F'65.

1. Z Kliniki Neurochirurgii Akademii Medycznej w Poznaniu
(Kierownik: doc. dr. med. H. Powiertowski).

TOKARZ, Feliks . ; HOLYST, Jerzy; STRZYZEWSKI, Włodzimierz

Intracranial management of an arteriovenous aneurysm of the central cerebral region. Neurol., neurochir., psychiat. Pol. 15 no.1:191-193 Ja-F'65.

1. Z Kliniki Neurochirurgii Akademii Medycznej w Poznaniu (Kierownik: doc. dr. H. Powiertowski) i z Oddziału Neurologicznego Szpitala im. Strusia w Poznaniu (Kierownik: dr. T. Frackowiak).

BIALEK, E.; TOKARZ, F.; SZMELJA, Z.

Otomeurological examination following brain stem injuries. Otolaryng.
Pol. 16 no.1a:255-259 '62.

1. Z Kliniki Otolaryngologicznej AM w Poznaniu Kierownik: prof. dr
med. A. Zakrzewski i z Kliniki Neurochirurgii AM w Poznaniu Kierownik:
dr H. Powiertowski.

(BRAIN STEM wds & inj) (EAR physiol)

JURCZYK, Witold, dr. med.; STENGERT, Krzysztof; GARSTKA, Jerzy; TOKARZ, Feliks; WOLOWICKA, Laura; WRUK, Marian, dr.

Measures for the restoration of suddenly arrested blood circulation. Pol. tyg. lek. 20 no.10:354-356 8 Mr '65

1. Z Zakladu Aestezjologii przy III Katedrze Chirurgii Akademii Medycznej w Poznaniu (Kierownik Zakladu: dr. med. Witold Jurczyk; Kierownik Katedry: prof. dr. med. Adam Piskorz); z Katedry I Kliniki Prtopedycznej Akademii Medycznej w Poznaniu (Kierownik: prof. dr. Wiktor Dega); z Katedry i Kliniki Neurochirurgii Akademii Medycznej w Poznaniu (Kierownik: doc. dr. med. Hieronim Powiertowski) i z Oddzialu Torakochirurgicznego Sanatorium PKP w Chodziezy (Ordynator Oddzialu: dr. Marian Wruck; Dyrektor Sanatorium: dr. Ryszard Raczyński).

SZMELJA, Zmognunt; TOKARZ, Feliks

Value of audiometry & especially the recruitment test in the diagnosis of tumors of the acoustic nerve. Otolaryngol. polska 11 no.4:397-406 1957.

l. Z Kliniki Otolaryngologicznej A. M. w Poznaniu, Kierownik: prof. A. Zakrzewski i z Kliniki Neurochirurgii A. M. w Poznaniu Kierownik: prof. H. Powiertowski.

(NERVES, ACOUSTIC, neoplasms
diag., audiometry & recruitment test (Pol))
(HEARING TESTS

audiometry & recruitment test in cancer of acoustic nerves, diag. value (Pol))

TOKARZ, Jerzy

Case of blood dyscrasia of the Willebrandt-Jürgens' type.
Wiad. lek. 18 no.14:1183-1185 15 Jl '65.

1. Z III Kliniki Chorob Wewnętrznych AM w Krakowie (Kierownik:
prof. dr. J. Aleksandrowicz).

TOKARZEWSKA, Maria; PIETKIEWICZ, Halina

Influence of the conditions of vinyl acetate polymerization upon
the hydrolytic degradation of polyvinyl acetate. Polimery tworz
wielk 8 no.2:52-55 F '63.

1. Zaklady Chemiczne, Zaklad Naukowo-Badawczy, Owiecim.

TOKARZEWSKA, Maria

Thermohardenable methacrylamide copolymers. Polimery tworz
wielk 8 no. 11: 434-436 N '63.

1. Instytut Farb i Lakierow, Gliwice.

TOKARZEWSKA, Maria; SILORA, Bronislaw

Redispersing copolymers of styrene and methacrylic acid.

Polimery tworz wialk 9 no.10:427-431 0 '64.

l, Research Laboratory of the Chemical Works, Oswiecim.

SHANGHAI, CHINA: 1984-1985, Yuan

Possibilities of adding petroleum alkyl sulfonates to
as polyvinyl chloride plasticizers. Polymer letter, no. 2, p. 116.

1. Advanced Technical Research Agency (for Plastic),
2. Chemical Works, Shanghai (for Polymerization). Shanghai, July 21, 1985.

TOKARZEWSKA, Maria; JABLONSKA, Jadwiga; PIETKIEWICZ, Halina; MITUS, Jan.

Hydrolysis of high-molecular polyvinyl acetates to polyvinyl alcohols containing less than 1 percent acetyl groups. Polimery tworz wiel 8 no.12:467-469 D'63.

1. Zaklady Chemiczne, Oswiecim.

TOKARZEWSKI, L.

Tokarzewski, L. Obtaining higher α -olefins, unsaturated double-bond hydrocarbons in the final coal of the ring, from respective sodium alkyl sulfonates (mersolats). p. 24.

CHEMIK

Vol. 7, No. 9 Sept. 1954 Warszawa, Poland

SO: Monthly List of East European Accessions, (EEL), W, Vol. 5, No. 10 Oct. 56

TOKARZEWSKI, L.

Synthetic lubricants. (To be contd.) P. 185
NAFTA. (Instytut Naftowy) Krakow.
Vol. 10 no. 8, Aug. 1954

SOURCE: EEAR LC Vol. 5, no. 7, July 1956

TOKARZENSKI, L.

Synthetic lubricants. (Conclusion) p.213.
NAFTA (Instytut Naftowy) Krakow
Vol 10, no. 9, Sept. 1954

So. East European Accessions List Vol. 5, No. 9 September 1956

TOKARZEWSKI, L.

Plant hormones. p. 55 CHEMIK. (Stowarzyszenie Inżynierów i
Techników Przemysłu Chemicznego) Katowice. vol. 8, no. 2,
Feb. 1955.

So. East European Accessions List. Vol. 5, no. 1, Jan. 1956

TECHNISCHE, D.

Polyethylene and new methods of its production. p. 106.
ACTA PHYSICA POLONICA Warszawa Vol. 9, No. 4, Apr. 1956.

East European Accessions List (EEAL) Library of Congress
Vol. 5, No. 11, August 1956.

TOKARZEWSKI, L.

Methods of determining formul-weights. p. 86.
(CHEMIK, Vol. no. 3, Mar. 1957, Warsaw, Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 9 Sept. 1957 Uncl.

TOKARZEWSKI, L.

"Developmental Trends in the Technology of synthesis of Carbon Monoxide and hydrogen.
p. 335 (Chemik. Vol, 6 no. 12, Dec. 1953 Katowice.)

Vol. 3, no. 6

SO: Monthly List of East European Accessions./Library of Congress, June 1954, Uncl.

TOKARZEWSKI, L.

Distr: 4E2c(j)

The dechlorinating action of sodium phenolate on poly-(vinyl chloride).³ Ludomir Tokarzewski (Wyższa Szkoła Pedagogiczna, Katowice, Poland). Roczniki Chem. 33, 819-82 (1959) (German summary).—The degree of dechlorination of poly(vinyl chloride) (I) by means of PhONa (II) in PhOH soln. at temps. 100-170° was studied at const. time of reaction (10 hrs.), the ratio of I to II being varied from 1:0.25 to 1:2. For the ratio 1:2 to 170° the degree of dechlorination was 95.7%. The product contained 32.7% (of theoretical value) of poly(vinyl-phenyl ether) and had a high softening point (210° after pressing under 300 atm. at 180°).

A. Kreglewski

1020 6/13

Card 1/1

aht

TOKARZEWSKI, M.

Perch-piston pump stand for public wells; a technical improvement. p.377.
GOSPODARKA WODNA (Naczelnia Organizacja Techniczna) Warszawa
Vol. 17, no. 9, Sept. 1955

So. East European Accessions List Vol. 5, No. 9 September 1956

TOKARSKIY, YU.

"Origin of Bentonites and Their Place in Systematics", Byull. Pol'sk Akad. Nauk, Otd. III, 1, No 6, 263-267, 1953.

In Poland, bentonites in the form of thin-layer seams are observed in Tortonian rocks in the neighborhoods of Khmel'nik, Zavikhost, Rakhov and others regions above the Vistula River. Bentonites are also found in the single-age rocks of the Ukraine, namely around L'vov and Kremens. The formation of bentonite is connected with the disposition of Tortonian tufas of rhyodacite and rhyolite composition. Bentonite from Khmel'nik corresponds to montmorillonite, but L'vov bentonite corresponds to beydellite. (RZhGeol, No 5, 1954). SO: Sum. No. 443, 5 Apr. 55

TOKARZOWSKA, Szczerba, M.

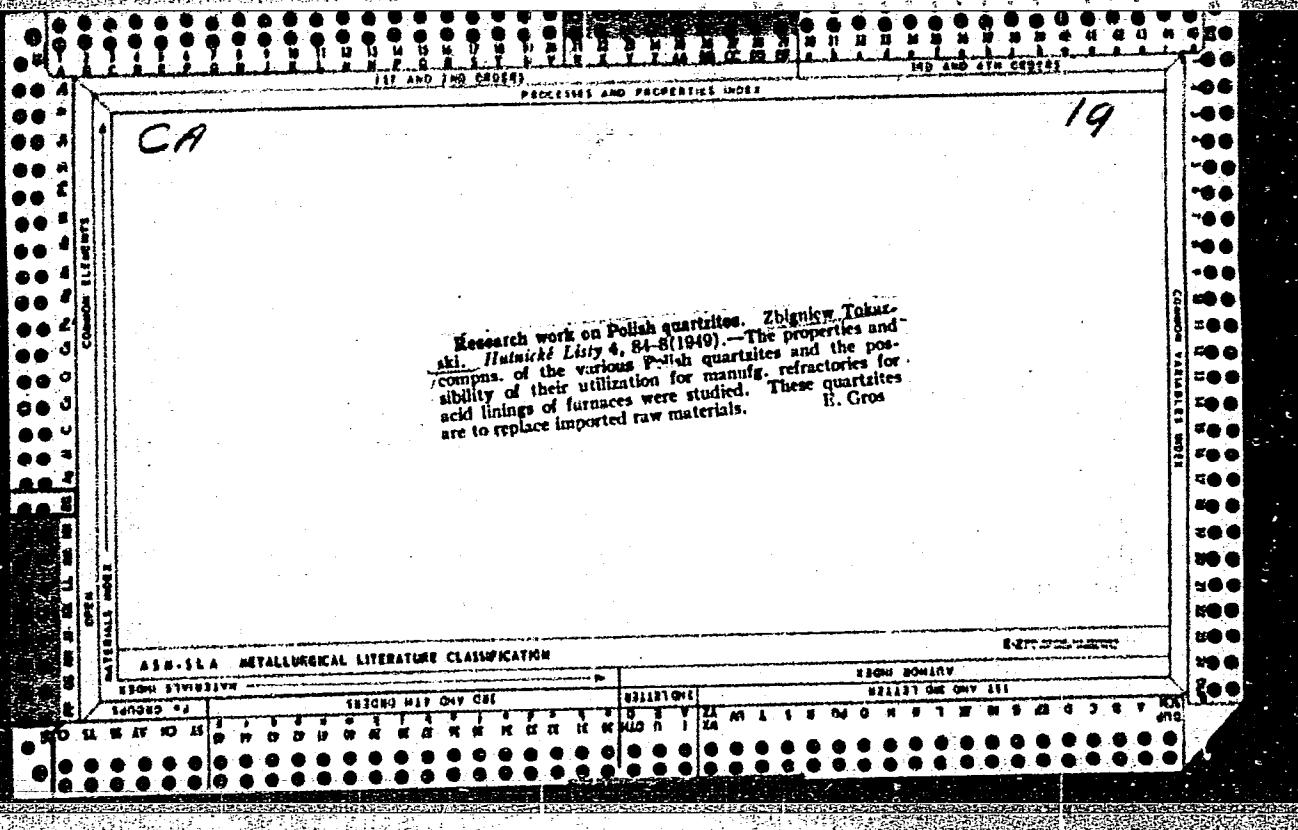
0-39 - Aug 93

2 Chem

products

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✓1896. Molecular balance and its application to gas analysis. M. Szczepańska.
Tokarszka, Nauka (Krakow), 1952, 8, 152-5, 183-5.—Description, with diagram and
sources of error. M. B.



MILGROM, F.; CZYZEWSKI, K.; FALKIEWICZ, A.; MICEWICZOWNA, M.; MATEJ, H.; TOKARZ, Y.

Studies on immunology of grafts. Polski tygod. lek. 8 no.24:841-846
15 June 1953. (CLML 25:1)

1. Of the Institute of Microbiology (Head--Prof. L. Hirszfeld, M.D.),
of the First Surgical Clinic (Head--Docent K. Czyzewski, M.D.) and the
Second Internal Clinic (Head--Prof. K. Falkiewicz, M.D.), Wroclaw Medical
Academy.

12/14

TOKARZ, Feliks; HOLYST, Jerzy

Tumors in the area of the foramen magnum. Neurol. neurochir.
psychiat. Pol. 14 no.1:55-62 Ja-F '64.

1. Z Kliniki Neurochirurgii Akademii Medycznej w Poznaniu
(Kierownik: doc. dr. med. H. Powiertowski).

BERAKOWA, A.; TOKARZEWSKA, M.

A conference on problems of progress in the field of obtaining
and processing polyvinyl chloride. Przem chem 41 no.7:400-
401 Jl '62.

TOKARZEWSKA, Maria; JABLONSKA, Jadwiga; PIETKIEWICZ, Halina

Preparation of fiber forming polyvinyl alcohol. Polimery
tworz wielk & no.1:7-9 Ja '63.

1. Zaklad Chemiczne Oswiecim, Zaklad Naukowo Badawczy, Oswiecim.

TOKAZHEVSKA, M. [Tokarzewska,M.]; GOLYUSIN'SKA, Ya. [Golusinska, J.]

Determination of the reactivity ratios for the system (2-ethyl)-
n-hexyl methacrylate - methacrylamide. Vysokom. soed. 6 no.11:
2093-2096 N '64 (MIRA 18:2)

1. Osventsimskiy khimicheskiy kombinat, Pol'skaya Narodnaya
Respublika.

TOKEARZEWSKA, M.; JABLONSKA, J.; JANIK, A.; MITUS, J.

Effects of certain parameters on the properties of concentrated
solutions of polyvinyl alcohol. Polimery tworz wielk 8 no.3:103-
105 Mr '63.

1. Zaklad Naukowo-Badawczy, Zaklady Chemiczne, Oswiecim.

POLAND

JEDLINEK, Zbigniew, and TOKARZELSKI, Maria, of the Department of Technology of Plastics and Polymers, Institute of Technology (Katedra Technologii Polimerek Organicznych Politechniki Gliwice), in Gliwice.

"Synthesis, Properties and Structure of the New Glycidether of Some Dihydroxyphthalides." Letter to the Editor.

Warsaw, Roczniki Chemii, Vol 37, No 9, 1963, pp 1035-1037.

Abstract: [Authors' German summary modified] In the course of studies on the synthesis of new glycidethers the unknown today diglycidethers of α , α' -dinaphitols and α , α' -dinaphtholmethanes were obtained. They were the most valuable intermediate compounds obtained in the synthesis of epoxide polymers. The method of synthesis is described. Comparative infrared spectrum adsorption measurements were made with an analysis of the structure of these new compounds. One German reference.

1/1

JEDLINSKI, Zbigniew; TOKARZEWSKA, Maria

Synthesis, properties, and structure of new glycidic ethers
of some dihydroxynaphthyls. Rocznik chemii 37 no. 9:1085-1087 '63.

1. Katedra Technologii Powłok Organicznych, Politechnika,
Gliwice.

TOKARZEWSKA, Maria

POLAND

TOKARZEWSKA, Maria

Department of Organic Coating Technology of the Silesian Polytechnic School (Katedra Technologii Powłok Organicznych Politechniki Śląskiej). Promotor: doc. dr Zbigniew Jedlinski.

Wrocław, Wiadomości chemiczne, No 9, Sept 65, pp 545-45.

"Exploration in the Area of New Ethers and Epoxy Resins Derivatives α, α' and β, β' -dihydroxydinaphthalenes."

TOKARZEWSKA, Maria

Research in the field of new glycidic ethers and epoxy resins,
derivatives of α - and β -dihydroxydinaphthyls. Wiad chem
17 no.9:543-545 S '63.

1. Katedra Technologii Polimerk Organicznych, Politechnika Slaska,
Gliwice.

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001756020014-5

TOKARZEWSKI, (Dr.)

"Methods of Obtaining Synthetic Lubricating Oils, Based on CIOS and BIOS Data,"
Nafta, Vol. X, NO. 8 and 9, 1954.

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001756020014-5"

L 00919-67 EWP(j)/I IJP(c) RM
ACC NR. AF6035463 (N)

SOURCE CODE: PO/0099/66/040/004/0657/0652

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B

AUTHOR: Tokarzewski, Ludomir and Dynarowicz, Alida of the Organic Technology Department, Teachers Training College (Katedra Technologii Chemicznej Wyższej Szkoły Pedagogicznej) Katowice.

"Influence of Electric Still Discharges on Vinyl Chloride"

Warsaw, Roczniki Chemii, Vol 40, No 4, 1966, pp 657-662.

Abstract: The influence of still electric discharges on vinyl chloride was investigated. Energy requirements and product yields were determined. The products were separated by gas chromatography, and some were isolated in the pure state. Attempts were made at their identification.

The authors thank master Engineer K. Zielenski and Master M. Hudzikow, Institute of Chemistry, Oświecim for carrying out the chromatographic analysis of research products. Orig. art. has: 3 figures and 2 tables. [JPRS: 36,862]

TOPIC TAGS: vinyl chloride, electric discharge, gas chromatography

SUB CODE: 07.20 / SUBM DATE: 25 Jun 65 / ORIG REF: 001 / OTH REF: 003
SOV REF: 005

Card 1/1 11/6

0921 218P

TOKARZEWSKI, Ludomir

On the dechlorization of Polyvinylidenechloride. Rocznik chemii 35 no.5:
1319-1322 '61.

1. Katedra Technologii Chemicznej, Wyższa Szkoła Pedagogiczna,
Katowice.

TOKARZEWSKI, Ludomir

Reaction products of cellulose with crotonaldehyde.
Polimery tworzące wielk. 9 no. 11:476-477 N '64.

I. Department of Chemical Technology of Teachers' College,
Katowice.

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1/1

Preparation of polyenes of high molecular weight. Ludo-
mir Tokarszewski (Wyższa Szkoła Pedagogiczna, Kutowice,
Poland). Roczniki Chem., 33, 610-20 (1969) (German sum-
mary).—Heating polyvinyl chloride (mol. wt. 66,000) (I)
with Na alcoholates (II) in alc. solns. at the b.p. of the
mixt. led during 10 hrs. to dechlorination of I and formation
of polyenes (III) with a no. of C:C bonds of about 640 per
mol. II did not cause cleavage of Cl but of HCl. The degree
of dechlorination depended on the b.p. of the alc. and the
ratio of I to II, and was found to be 37.5% for MeONa
in MeOH (ratio I/II = 1:5), 91% for Et₂ONa in EtOH
(1:0.25, or 1:0.5), and for Bu₂ONa in BuOH 98.3% (1:0.5)
and 99.6% (1:5). III were black, pyrophoric powders, insol.
in org. solvents.

A. Kregl WSE

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29-9 (B)
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TOKARZEWSKI, L.

"Influence of Ultraviolet Rays on the Course of Chemical Reactions",
P. 141. (CHEMIK, Vol. 4, No. 5, May 1953, Katowice, Poland)

SO: Monthly List of East European Accessions, (EEL), IC, Vol. 4,
No. 1, Jan. 1955, Uncl.

TOKARZEWSKI, L.

"Distillation Processes", p. 282, (GEMEK, Vol. 7, No. 10, October 1954,
Katowice, Poland)

SO: Monthly List of East European Accessions (FEAL), LC, Vol. 4, No. 3,
March 1955, Uncl.

S/081/62/000/022/088/088
B101/B186

AUTHOR: Tokarzewski, Ludomir

TITLE: Dechlorination of polyvinylidene chloride

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 22, 1962, 616, abstract
22R86 (Roczn. chem., v. 35, no. 5, 1961, 1319 - 1322 [Pol.;
summaries in Russ, Eng., and Ger.])

TEXT: The dechlorination of polyvinylidene chloride was done with sodium
alcoholates and sodium phenolate. The properties of the resulting poly-
cumulenes were investigated, noting their great resistance and chemical
inertness. [Abstracter's note: Complete translation.]

Card 1/1

OSMANLY, Omer Musa; TOKARZHEVSIY, Ye., prof., red.

[Development of the Kirovabad industry during the years
of the Soviet regime] Razvitie promyshlennosti Kirovabada
za gody Sovetskoi vlasti. Baku, Azerbaidzhanskoe gos.
izd-vo, 1961. 91 p. (MIRA 17:11)

GUSEYNOV, I.A., akademik, red.; IBRAGIMOV, Z.I., prof., red.;
TOKARZHEVSKIY, Ye.A., doktor ist. nauk, prof., red.;
NOVOSARTOV, G.M., kand. ist. nauk, red.; SHIKHLINSKIY,
Z.B., kand. ist. nauk, red.

[From the history of the Soviet labor class in Azerbaijan]
Iz istorii sovetskogo rabochego klassa Azerbaidzhana. Baku,
Izd-vo AN Azerb.SSR, 1964. 254 p. (MIRA 17:12)

1. Akademiya nauk Azerbaidzhanskoy SSR, Baku. Institut istorii.
2. Chlen-korrespondent AN Azerb.SSR (for Ibragimov).

"APPROVED FOR RELEASE: 07/16/2001

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TURKARZHEVSKIY, ie. A., (same. in history); KAZIYEV, M. A.; GULIYEV, A. N.;

"Historical Sketch," Soviet Azerbaiydzhan, Baku, Izd-vo AN Azertaydzhanskoy SSR, 1958.

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001756020014-5"

ACCESSION NR: AP4020570

S/0057/64/034/003/0444/0447

AUTHOR: Tokatly*, V. I.

TITLE: Flow of a compressible conducting fluid past a current carrying conductor

SOURCE: Zhurnal tekhnicheskoy fiziki, v.34, no.3, 1964, 444-447

TOPIC TAGS: magnetohydrodynamics, plasma, plasma flow, plasma field penetration

ABSTRACT: The equations of magnetohydrodynamics are solved in a linear approximation for the case of the steady flow of a perfect non-viscous gas of finite conductivity past a thin (linear) conductor carrying a current. The flow is assumed to be normal to the conductor, i.e., the component of the velocity parallel to the conductor is assumed to vanish. The linearized magnetohydrodynamic equations employed are valid provided the "interaction parameter" (the product of the magnetic Reynolds number and the ratio of the magnetic pressure to the kinetic energy density) is much smaller than unity and the Mach number is neither too great nor too near unity. The solution is obtained in terms of definite integrals involving modified Bessel functions. The Bessel functions are replaced by the first term of their asymptotic expansions, and the integrations are performed. Thus, asymptotic expressions in

Card 1/2

ACCESSION NR: AP4020570

terms of elementary functions, valid far from the conductor, are obtained for the velocity, pressure, temperature, density and field. As an example it is calculated that for a hydrogen plasma at 10^4 °K with electron density 10^{16} cm $^{-3}$ and velocity 2×10^6 cm/sec, the approximations are valid for currents less than 3×10^3 A, and the field penetrates the plasma to a depth of about 7.7 cm. "In conclusion, I consider it my duty to express my sincere gratitude to A.I.Morozov for valuable remarks and advice during discussions of the work." Orig.art.has: 27 formulas and 6 figures.

ASSOCIATION: none

SUBMITTED: 01Mar63

DATE ACQ: 31Mar64

ENCL: 00

SUB CODE: PH

NR REF SOV: 002

OTHER: 001

Card 2/2

LAZAR, Laszlo; TOKAY, Istvan

The situation and tasks of tool supply in the wood industry.
Faipar 12 no. 2:48-51 F '62.

1. "Faipar" szerkeszto bizottsagi tagja (for Lazar).

TOKAY, Istvan

Progress in the mechanization of the furniture industry. Faipar 10
no.10:295-300 O '60.

BOHM, Tivadar, Dr.; TOKAY, Laszlo, Dr.

Application of pacatal as chlorine-free phenothiazine derivative in neuro-psychiatry. Orv. hetil. 100 no.8:280-284 22 Feb 59.

1. As Orszagos Ideg- es Elmegyogyintezet (igazgato: Maria Bela dr.) II.
Noi Idegosztalyanak (foorvos: Tokay Laszlo dr.) es III/B Noi Elmeosztalyanak
(vezeto: Maria Bela dr.) kozlemenye.

(AUTONOMIC DRUGS, ther. use

mepazine in ment. disord., clin. evaluation (Hun))

(PHENOTHIAZINE, related cpds.

mepazine ther. in ment. disord., clin.evaluation (Hun))

(MENTAL DISORDERS, ther.

mepazine, clin. evaluation (Hun))

TOKAYEV, A.K., mladshiy nauchnyy sotrudnik

Using igdanite at strip ore mines in Kirghizistan. Vzryv.
delo no.54/11:279-282 '64. (MIRA 17:9)

1. Institut gornogo dela AN Kirgizskoy SSR.

SALIN, A.A.; VOLKOVA, V.S.; TOKAYEV, Yu.N.; TULENKOV, I.P.; KOPYTOV,
S.A.; GUZAIROV, R.S.

Electrodeposition of zinc with high electrolyte temperatures.
TSvet.met. 35 no.12:13-18 D '62. (MIRA 16:2)
(Zinc—Electrometallurgy)
(Metals, Effect of temperature on)

TOKBANOV, Sh.T., aspirant

Dynamics of respiratory indexes in calves in relation to growth. Trudy AZVI 10:274-279 '57. (MIRA 12:8)

1. Iz kafedry chastnoy patologii i terapii (zav.kafedroy - chlen-korrespondent AN KazSSR, zasluzhennyy deyatel' nauki KazSSR, doktor prof. Ya.I.Kleynbok) Alma-Atinskogo zoovet-instituta.
(Calves--Diseases and pests) (Respiratory quotient)

L 44779-66 JW/WE

ACC NR: AP6013265

SOURCE CODE: UR/0413/66/000/008/0055/0055

INVENTOR: Akhmedov, R. B.; Tokbayev, M. T.

6
B

ORG: none

TITLE: Injection gas burner. Class 24, No. 180725

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 8, 1966
55

TOPIC TAGS: gas burner, injection burner

ABSTRACT: An Author Certificate has been issued for an injection gas burner containing a ring-shaped gas collector with nozzles and mixer. To decrease its overall size and to improve carburization, the mixer is made in the shape of a tangential blade apparatus and each nozzle is mounted next to a corresponding duct formed by the adjacent blades (see Fig. 1). Orig. art. has: 1 figure. [Translation]

[NT]

Card 1/2

UDC: 622. 951. 2

L 44779-66
ACC NR: AP6013265

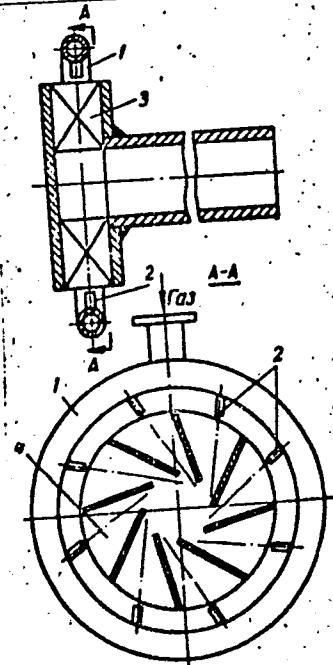


Fig. 1. Injection gas burner.
1—Ring-shaped collector;
2—nozzles; 3—blade apparatus;
4--duct.

SUB CODE: 13 / SUBM DATE: 05Oct64 /

Card 2/2 JLR

TOKBAYEV, Nurgazy, zasluzhenny master sotsialisticheskogo zhivotnovodstva Kazakhskoy SSR; SHRMAN, R.N., redaktor; ZLOBIN, M.V., tekhnicheskiy redaktor

[Golden fleece] Zolotoe runo. Alma-Ata, Kazakhskoe gos. izd-vo,
1956. 23 p. (MIRA 9:10)

1. Starshiy chaban kolkhoza "Luch Vostoka" Alma-Atinskogo rayona.
Alma-Atinskoy oblasti. (for Tokbayev)
(Wool)

TOKBUKHIN, V. I.

"Neuroregulation of Motor Function of the Breast; Storage and Output of Milk." (pp. 123-39)
by Baryshnikov, I. A., Zaks, M. G., Zotikova, I. N., Levitskaya, Z. S., Pavlov, G. N.,
Pavlov, E. F., Tverskoi, G.B., Tokbukhin, V. I., Tsakhaev, G. A.

SO: Journal of General Biology (Zhurnal Obshchey Biologii) Vol. 12, No.6, (Nov-Dec) 1951.

TOKE, Gyula

"Connections in the heavy-current engineering" by Fritz Henze,
Vol. 1-2. Reviewed by Gyula Toke. Elektrotechnika 53 no.1:46
'60.

TOKE, Gyula, adjunktus

Heating during the starting operation of the Fischer-Hinnen-type
motors for driving centrifugal machines and the dimensioning of
the starting elements. Elektrotechnika 54 no.5:207-211 My '61.

1. Budapesti Műszaki Egyetem Villamos Gépek és Műresek Tanszéke.

BEKE, Denes (deceased); TOKE, Laszlo

Data on the chemistry of heterocyclic, pseudo-basic amino
carbinols. XXIII. Magy kem. folyoir 68 no.10:419-424 O '62.

1. Budapesti Muszaki Egyetem Szerves-Demiai Tanszeke.

BEKE, D., prof. (Budapest); SZANTAI, Cs. (Budapest); TOKE, L. (Budapest)

Contributions to the chemistry of heterocyclic pseudobasic
aminocarbinols. IV. The dissociation grade of cotarnine and some
analogous compounds. Periodica polytechn chem 3 no.3:177-185 '59.
(EEAI 9:6)

1. Institut fur Organische Chemie der Technicchen Uniwersitat,
Budapest.
(Heterocyclic compounds) (Amino alcohols)

DEKE, Denes; SZANTAY, Csaba; TOKE, Laszlo

Data on the chemistry of heterocyclic, pseudobasic amino carbinols.
XV. Determination of the dissociation grade of cotarnine and some
analogue compounds. Magy kem folyoir 66 no.2:66-70 F '60.

1. Budapesti Muszaki Egyetem Szerves-Kemiai Tanszeke. 2. "Magyar
Kemai Folyoirat" szerkeszto bizottsagi tagja (for Beke).

TOKER BERNARD

H-33

POLAND / Chemical Technology. Chemical Products and
Their Application. Cellulose and Cellulose
Products. Paper.

Abs Jour : Ref Zhur - Khim, No 3, 1958, No 10,002

Author : Toker Bernard

Inst : Not given

Title : Certain Problems of Modern Cellulose Chemistry as Viewed
by Soviet Scientists.

Orig Pub : Przegl. papiern., 1955, 11, No 10, 289-292

Abstract : The structure of a cellulose (I) macromolecule, the stability of the glycoside unit in the I macromolecule and of cellulose esters under the influence of acids, bases, and other factors, as well as the reactivity of primary and secondary OH groups in the elementary I unit are considered.

card 1/1

TOKER, B

POLAND/Chemical Technology - Chemical Products and Their
Applications. Cellulose and Cellulose Products.
Paper.

K-5

Abs Jour : Ref Zhur - Khimiya, No 2, 1958, 6606
Author : Toker
Inst : -
Title : Cellulose Volumetric Weight Determination.
Orig Pub : Prace Inst. celul.-papiern., 1957, 6, No 1, 39-45

Abstract : A method for determining the volumetric weight of cellulose (C) in a device with communicating vessels. The volume of the mercury displaced by the investigated C from the first vessel is measured by the rise of the mercury level in the second vessel, a burette, with an accuracy of up to 0.05 ml. Samples selected from various parts of the sheet had different volumetric weights which may be associated with the uneven sheet structure and the influence of the storage conditions. The effect of air relative

Card 1/2

POLAND/Chemical Technology - Chemical Products and Their
Applications; Cellulose and Cellulose Products,
Paper;

K-5

Abs Jour : Ref Zhur - Khimiya, No 2, 1958, 6606

humidity upon the volumetric weight of pressed bleached C was investigated. No reliable relationship was established between the volumetric weight, the latter linear expansion and the absorption of a bleached 17% NaOH solution by the C.

Card 2/2

Country	: POLAND
Category	: Chemical Technology. Chemical Products (Part 4). Cellulose and Its Derivatives. Paper
Abs. Jour.	: Ref Zhur-Khim, 1959, No 7, 25771
Author	: Toker, B.
Institut.	: -
Title	: Influence of the Content of Chlorine and Sulfate Ions and of the pH Medium upon the Corroding Properties of Paper
Orig Pub.	: Przegl. papiern., 1958, 14, No 6, 161-163, 171
Abstract	: It was shown that at a 0.02-0.05% and 0.1-0.25% content of the ions Cl^- and SO_4^{2-} and within a pH range of 2.0-8.0, an increase in the content of ions increases the corroding properties of paper, which is more strongly expressed for Cl^- . With decrease of pH, the effect of the Cl^- and SO_4^{2-} content upon the corroding properties of paper increases. Paper with a low pH in the ab- sence of Cl^- and SO_4^{2-} causes negligible corro- sion. To reduce the corroding properties, a pH

Card: 1/2

Country :
Category :

Abs. Jour. :

Author :
Institut. :
Title :

Orig. Pub. :

Abstract : of the paper ≥ 5 , a content of Cl⁻ ions $\leq 0.05\%$
and SO₄²⁻ ions $\leq 0.25\%$ are recommended. -- Ye.
Gurvich

Card: 2/2

H-154

TOKEE, B.

Certain problems in modern cellulose chemistry as seen by Soviet scientists. p. 289. FRAZECIAD APIERNICZY, Lodz. Vol. 11, No. 10, Oct. 1955

SOURCE: East European Accessions List (EEAL, LC, Vol. 5, No. 2, Feb. 1956)

ACCESSION NR: AR4015698

8/0081/63/000/023/0408/0408

SOURCE: RZh. Khimiya, Abs. 23M247

AUTHOR: Toker, N. I.; Abend, L. K.; Krayneva, E. P.

TITLE: Physico-chemical investigation of asbestos of various origins

CITED SOURCE: Nauchn. tr. Vses. n.-i. in-t asbest. prom-sti, vy* p. 3, 1962,
62-103

TOPIC TAGS: asbestos

ABSTRACT: Results are presented of analyses of asbestos fiber of various origins by the physico-chemical laboratory of the NIIAsbest (Asbestos Institute). The results obtained can serve as reference material for certain physico-chemical constants for asbestos, and also facilitate the identification of the asbestos fiber during the study of new sources of asbestos. The methods of roentgeno-chemical and thermal analysis are also described. M. S.

DATE ACQ: 09Jan64

SUB CODE: MT

ENCL: 00

Card 1/1

TOKES, Laszlo

Microbook collection and the photographic laboratory of the
Hungarian Academy of Sciences Library. Magy tud 69 no.2:101-106
F '62.

1. Csoportvezeto, Magyar Tudomanyos Akademia Konyvtara, Budapest.

TOKES, Laszlo

How we care about new workers. Munka 4 no.11:22 N'54

1. Fovarosi Villamos Vasut Baross-polyauvar uxemi bizottsagi elnöke.

LAZAR, Gyorgyne, dr.; TOKES, Laszlo

Standardization in microfilming and document reproduction.
Szabvany kozl 17 no.4:182-187 Ap '65.

1. Head, Library of the Hungarian Bureau of Standardization,
Budapest (for Lazar). 2. Head, Microfilm Laboratory of the
Library of the Hungarian Academy of Sciences, Budapest (for
Tokes).

TOKHALZI, R., PAVLODZE, I. i TSKHITASHVILI, T.

22770. Tokhalz, R., Pavlodze, I. i Tskhitashvili, T. Cisca kreatina i kreatininska u detavdist resikov pri razlichnykh zabolevaniyakh. trudy (tbilisi. ss. red. in-t), t, v, 1943, S. 113-24. - na gruz. yaz. - rezyume na rus. yaz.

SC: DEPTOFISI No. 30, 1940

TÓKÉS, B.

EXCERPTA MEDICA Sec.2 Vol.11/1 Physic-Biochem,etc.Jan58

134. THE EFFECT OF FREE CHLORINE IN DRINKING WATER ON GASTRIC SECRETION. Az ivóvíz szabad klór tartalmának hatása a gyomor-szekrécióra. Előzetes közlemény, Tókés B., Csontos A. and Baciu M. ORV. SZLE. 1957, 3/2 (53-55) Tables 2

In the past 10 yr. cases of hypo- and anacidity became more frequent in the population resident in a town. Free chlorine in drinking water was suspected to influence gastric secretion. A material of outpatients in the years 1956-57 included 627 inhabitants who drank pipe water treated with chlorine and 702 using drinking water from untreated private wells. The differences of gastric secretion were significant; 19% anacids against 8%; 61 hypacids against 13%. It is concluded that free chlorine in drinking water causes hypo- and anacidity. By administering 0.5 mg. chlorine to patients the diminution of acid secretion and of pepsin activity was observed. Chlorine also diminishes pepsin activity in vitro.

Fornet - Debrecen

TOKES, Laszlo

Application of microcards in natural sciences. Term tud
kozl 7 no.5:213-216 My '63.

1. Magyar Tudomanyos Akademia Konyvtaranak Mikrokonyvtara es
Fotolaboratoriuma vezetoje, Budapest.

TOKES, Otto (Budapest)

Science organizational tasks of the Academy after its 1961 General Meeting. Magy tud 68 no.9:537-544 '61.

1. A Magyar Tudomanyos Akademia Elnokseggi Titkarsaganak vezetoje,
Budapest.

(Hungarian Academy of Sciences)
(Hungary--Science)

CARPENISAN, D., ing.; DIRDITĂ, C., ing.; PANAITESCU, M., ing.; PARASCHIV, V.,
ing.; TOKES, T., ing.; VESCAN, D., ing.; PETRISOR, M., tenn.

Equipment for measuring rock pressure in mines made by the
Institute of Mining Research. Rev min 15 no.11:547-552 N '64.

JUGUREANU, Nicolae, ing.; TOKES, Tibor, ing.

Designing principles of ventilation of very long works during digging.
Rev min 13 no.10:446-459 0 '62.

TOKESI, Major

The statistical reporting system of the Main Department of Railroads for the year 1964. Vault 14 no.5,204.22 Mkt4.

AUTHOR: Tokgayev, T.B. SOV/165-58-6-7/24

TITLE: Data on the Biology of the Moroccan Grasshoppers

PERIODICAL: Izvestiya Akademii nauk Turkmeneskoy SSR, 1958, Nr 6,
pp 48-54 (USSR)

ABSTRACT: With the aid of the observations carried out in the Sumbar valley in the spring of 1957, the conditions for the creeping forth and the further mutation, as well as the activity of the Moroccan grasshopper larvae in the course of the individual hours of the day, with special consideration of the temperature found on the ground and in the air at the time, are described. For combatting them, spraying with Sexachlorane is recommended; this should be done on the second day after the exactly determined time of emergence, by consideration of the expected temperature, is to occur.

~~Card #2~~ There are: 1 table and 8 Soviet references.

Inst Zoology & Parasitology A5 Turk SSR

TOKGAYEV, T.; NEPESOVA, M.

Materials on the fauna and ecology of weevils (Curculionidae,
Coleoptera) of southeastern Turkmenia. Izv. AN Turk. SSR.
Ser. biol. nauk no.1:53-59 '64. (MIRA 17:9)

1. Institut zoologii i parazitologii AN Turkmeneskoy SSR.

TOKHADZE, B. PAYLEDZE, I. i TSERETELI, T.

22770 Tokhadze, B. Payledze, I. i Tsereteli, T. Obmen Kreatina I
Kreatinina U Deteydistrofikov Pri Razlichnykh Zabolevaniyakh. Trudy
(Tbilis. Gos. Med. In-T), T.V. 1948, S. 118-24 - Na Cruz. Yaz. Rezyume
Na Rus. Yaz.

SO: Letopis', No. 30. 1949

18.89,00

32619

S/137/61/000/011/079/123

A060/A101

AUTHORS: Tokh, T., Boldvin, V.

TITLE: Effect of various hydrogen concentrations upon the ductility of steel

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 11, 1961, 45, abstract 11Zh268 ("Korrozion. rastreskivaniye i khrupkost"). Moscow, Mashgiz, 1961, 166 - 173)

TEXT: The investigation of ductility of steel SAE 1020 containing various quantities of H₂ was conducted at various deformation rates (from 0.05 to 19000 cm/cm per min) and at various temperatures (from +21 to -196°C). The investigation was carried out upon cylindrical specimens 19 mm in diameter, subjected to cathodic polarization in 4% H₂SO₄. The testing of the steel for rupture at various temperatures was realized by submerging the specimen in water (21-100°C), or a mixture of liquid N₂ and isopentane (from +21 to -151°C), or boiling N₂ (from -151 to -196°C). The H₂ content was determined by vacuum extraction at high temperature. The ductility of H₂ saturated steel at room

Card 1/2

32619
S/137/61/000/011/079/123
A060/A101

Effect of various.....

temperature and ordinary deformation rate (0.05 cm/cm per min) depends upon the polarization time: at first, as the polarization time is increased - it decreases, and then it remains constant beyond a definite critical value of hydrogen-saturation time. Tests have shown that a considerable reduction in the ductility occurs at a polarization time equal to about 30 min. The steel fragility depends on the H₂ concentration in solid solution. The problem of H₂ distribution in the steel is considered and it is pointed out that under the conditions of polarization prevailing the experiments the effect of H₂ extends over a metal thickness of ≤ 0.64 mm. The H₂ may be "driven out" of the steel by its subsequent anodic polarization, and in that case there occurs a greater increase in the ductility of the steel than after eliminating the surface layer of the specimen by mechanical means. There are 8 references.

Z. Fridman

[Abstracter's note: Complete translation]

Card 2/2

TOVADZE, P., TAVLOISHVILI, I., i TSARATELI, T.

22750. Tek'adze, P., Tavloishvili, I. i Tsarateuli, T. Ohren krestina i kreatinina u detektivist rofikov pri razlichnykh rebolevaniyakh. Trudy (Tbilis. gos. red. in-t), t, V, 1948, S. 118-24. - na gruz. yaz. - rezyure na rus. yaz.

SC: IFTOPIS' No. 30, 1949

MURVANIDZE, D.D., doktor med. наук; TOKHADZE, G.G. (Tbilisi)

Urinary complications of diabetes mellitus. Tbilisi, 1965. (31 pp. 19.000)
no. 160-67 Ja-F '65.

MARSHAK, I.S., kand. tekhn. nauk; VASIL'YEV, V.I., inzh.; TOKHADZE, I.L.

Small balastless tubular xenon lamp with water cooling.
Svetotekhnika 9 no.11:13-17 N '63. (MIRA 16:12)

1. Moskovskiy elektrolampovyy zavod.

MARSHAK, I.S.; VASIL'YEV, V.I.; VASSERMAN, A.L.; TOKHADZE, I.L.

Very high-power tubular xenon lamps without ballast, a new
kind of effective light source for high-speed motion-picture
photography. Usp.nauch.fot. 9:159-166 '64.
(MIRA 18:11)

24,3100 (also 1051,1106,1163)
9,2576 (also 1055,1532)

32192
S/196/61/000/010/011/037
E194/E155

AUTHORS: Marshak, I.S., Vasil'yev, V.I., Tokhadze, I.L., and
Rogatin, N.V.

TITLE: Powerful xenon-tube 'sun' lamps operating without
ballast

PERIODICAL: Referativnyy zhurnal, Elektrotehnika i energetika,
no. 10, 1961, 11, abstract 10V 89. (Svetotekhnika,
no. 4, 1961, 8-17)

TEXT: It follows from considerations of the physical mechanism of impulse discharges in tubular impulse lamps that this discharge is quasi-stationary, i.e. it can continue indefinitely provided that the current supply is not exhausted and the discharge tube is not thermally overloaded. The discharge channel is of considerable ohmic resistance (some hundreds of ohms), which depends on its geometry and which alters little with the electric stress or specific resistance of the plasma. Because of this resistance the lamps need no ballast, and the potential difference across their electrodes is equal to the supply voltage.
Experimental data about the specific resistance of plasma and Card 1/4

32192
S/196/61/000/010/011/037
E194/E155

Powerful xenon-tube 'sun' lamps ...

permissible mean power-loading on the quartz tube walls permit of approximate calculation of the length and diameter of discharge tubes in which discharge, like quasi-stationary discharge in impulse lamps, could continue indefinitely (i.e. be quite steady) provided that it receives supply from a steady electrical system without any series ballast resistance. The comparatively high discharge-extinction voltage in narrow-tube impulse lamps governs the minimum internal diameter of the tube and, consequently, the power per unit length in the case of supply from an a.c. system. From data on impulse tubes fed directly from an a.c. system (without storage capacitor) with a current impulse for one quarter of a cycle, it is found that the minimum internal diameter and power mentioned above are respectively 16-20 mm and 95 W/cm. With supply voltages of 380, 220 and 127 V the minimum power of ballastless a.c. lamps and their lengths should be respectively 15, 8.5 and 5 kW and 156, 90 and 52 cm. D.c. impulse lamps should be smaller in diameter and consequently of lower power. These statements were confirmed by an investigation of prototype discharge lamps of various diameters (16-48 mm), lengths

Card 2/4

32192
S/196/61/000/010/011/037
E194/E155

Powerful xenon-tube 'sun' lamps ...

(600-3400 mm) and xenon pressures (15-200 mm Hg) made with various kinds of supply (d.c. and a.c. at various voltages) and cooling conditions (natural and forced water cooling). The investigation also gave a more accurate idea of the value of the power load on the tube walls (for an impulse tube operating for 500-1000 hours) and the specific resistance of plasma (when used under steady conditions of low electrical gradient). On comparing these values of ignition voltage and light output of impulse lamps with those obtained in the work for tubes of various parameters, a technical basis was provided for optimum design of ballastless xenon lamps of 20 kW power for a.c. 380 V supply. The principal characteristics of discharge lamps (compared with 20 kW Osram tubular xenon lamps supplied through a ballast reactor, indicated in brackets) are: current 57 A (75 A); light output 29 lumens per watt (25 lumens per watt); circuit power factor 1 (0.73); overall length 1980 mm (1900 mm); tube diameter 27 mm (30 mm); life over 500 hours (over 500 hours). A small starting device such as a Tesla transformer with appropriate switching suffices to start the lamp instead of the large and heavy starting equipment with reactor (approximate weight: copper 50 kg; steel 150 kg) used for German Card 3/4

✓